



WARTHOG[®]
PRODUCTS INTERNATIONAL, INC.

"Warthog Pump Owner's Manual"



Rugged, Reliable and Ready

Like mother nature's creation, tough, reliable and comfortable in water and sludge.

Manufactured by: **Warthog Products International Inc.**

Regina, Saskatchewan, Canada

Your WARTHOG PUMP must be shipped dry WITHOUT engine or gear case oil.

CAUTION

Do not start engine until oil is added to the engine AND gear case.

Read this manual and the engine owner's manual carefully before operating your WARTHOG PUMP.

Before Starting the Warthog Pump

Important

Engine - Refer to the engine owner's manual for minimum engine oil requirements and fuel requirements.

Also refer to engine owner's manual for oil change requirements, engine service requirements, engine starting instructions and use of the manual choke.

Gear Case - The gear case in your WARTHOG PUMP requires 1 litre (35 ounces) of GEAR OIL. Remove the gear case oil plug, (see picture). Then fill the gear case with the recommended amount of oil as shown above and replace and tighten the oil plug.



Engine/Pump Start-up Recommendations:

- Prior to pumping, start the engine on dry land and run for two minutes to ensure easier starting once it is placed on the water. Ensure to pull engine start cord just as pump is shutting off when it has run dry.
- Ensure the hose does not have a twist in it before starting the engine to begin pumping.
- Run the pump at full throttle as your WARTHOG PUMP is engineered to run at full throttle.

Fluid Level Checks:

- Check the gear case oil level every 24 hours and/or before every use and add if required.
- Check the engine oil level before every use and add if required.
- Fill the engine with gasoline prior to every use.

PUMPING- START UP PROCEDURES

PRIOR TO STARTING THE PUMP Ensure there are no twists or kinks in the hose.

ALSO PLEASE NOTE THAT ONCE THE PUMP IS SHUT OFF THERE IS A CHANCE THAT THE HOSE MAY HAVE TWISTED ONCE THERE WAS NO LONGER WATER MOVING THROUGH IT. IT IS COMMON FOR THE HOSE TO SHIFT AND MOVE UPON START UPS AND SHUT DOWNS SO YOU MUST INSPECT THE ENTIRE HOSE EVERY TIME BEFORE YOU RESTART THE PUMP.

EVERY TIME YOU START THE ENGINE YOU SHOULD WALK ALONG THE HOSE THE ENTIRE LENGTH AS IT FILLS TO ENSURE IT DOES NOT MOVE OR SHIFT AND CAUSE A TWIST IN THE HOSE

IF A TWIST OCCURS THAT YOU CAN NOT GET OUT BEFORE IT FULLY PRESSURIZES, RETURN IMMEDIATELY TO THE PUMP AND SHUT DOWN THE MOTOR TO STOP THE HOSE FROM OVER PRESSURIZING AND BURSTING.

Anchoring & Positioning the Hose:

When using the optional Warthog Hose Holdown Kit.

EVEN A LIGHT BREEZE CAN FLIP OVER AND TWIST THE HOSE

To prevent the empty hose from being twisted and blown on windy days secure the hose by INSERTING A PEG ON EACH SIDE OF THE HOSE AND SLIDING THE BUNGEE OVER THE PEGS AND SLIDING IT DOWN TIGHT TO THE GROUND. INSERT PEGS ON AN ANGLE OUTWARDS TO HELP THE CORD STAY CLOSE TO THE GROUND AS SEEN IN THE PICTURE BELOW.

THE BUNGEE WILL STRETCH AND ALLOW THE HOSE TO TAKE ITS SHAPE WITHOUT RESTRICTING THE FLOW. ONCE THE PUMP IS SHUT OFF TO REFUEL OR MOVE IT THE BUNGEE WILL PULL THE HOSE BACK DOWN TO THE GROUND AND SECURE IT THERE.



The tie-downs should be used every 10 to 15 feet (3 to 5 meters)

THE HOSE MAY WANT TO ROLL DOWN A SIDE HILL

INSERT PEGS CLOSE TO THE HOSE ON THE LOWER SIDE OF THE SIDE HILL AS CLOSE TOGETHER AS MAY BE REQUIRED BY THE SLOPE AND OR TERRAIN. ONCE THE HOSE FILLS UP IT WILL ROLL TILL IT RESTS AGAINST THE PEGS AND ARE SECURED FROM

FURTHER ROLLING. IF AND WHEN THE PUMP IS SHUT OFF CHECK THESE AREAS WELL AND ENSURE THE HOSE HAS NO TWISTS AND IS LAYING FLAT. ENSURE YOU WALK ALONG THE HOSE UPON RESTARTING THE PUMP TO ENSURE HOSE STAYS IN PLACE.

SECURING THE PUMP

IT IS ADVISED TO TETHER THE PUMP AT ALL TIMES by fastening a rope to the handle closest to the hose connection and fasten the other end to a stake or secure object. IN THE EVENT THAT THE HOSE GETS YANKED OFF OR THE COUPLING COMES APART THE PUMP WILL ACT IN THE SAME MANNER AS A JET BOAT AND GET AWAY FROM YOU.

In the event that there is a side wind or waves the WARTHOG PUMP may be secured by fastening a rope to the handle closest to the hose connection and fasten the other end to a stake or secure object at as wide an angle to the hose as possible.

Pump Maintenance:

Engine – Refer to engine operator's manual for engine maintenance.

Gear Case:

- Check the gear case oil level every 24 hours and/or before every use.
- Change oil in the gear case every 500 hours and also at the end of each season if storing the pump.

Storage of the Warthog Pump:

When storing the Warthog Pump - drain the fuel tank, drain the carburetor fuel bowl, oil the carburetor linkage and lube the cylinder head.

Trouble Shooting:

<u>Problem</u>	<u>Cause</u>	<u>Solution</u>
Pump not level in water .	Twisted hose .	Ensure that the hose is lying flat before connecting the camlock coupling
Leaky Hose	Holes or tears in hose	Repair with patching tape
Hose bursting at pump hose.	Too high of lift	Use Warthog reinforced commercial hose
Milky colored gear oil	Water seeping into gear case	replace rotary seal
Engine is difficult to start	Fouled spark plug	Replace or clean spark plug
	Old or poor fuel	Supply with new fuel, see engine owner's manual.

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